Master Syllabus

MATH 1100 - College Algebra (3, 0, 3)

Course Maximum Enrollment: 28

Special Facility or Equipment Needs/Safety Rules and Issues: none

Supplies: A graphing calculator is required in addition to graph paper and a ruler

Lab Fee: None

Pre- and Co-requisites: ACT mathematics score of 19 or higher, or MATH 0092 with a grade of C or better or satisfactory score on the SLCC placement exam

Course Description: Functions and graphs including linear functions, quadratic functions and other polynomial functions; exponential and logarithmic functions; composition and inverse functions; zeros of polynomial functions; systems of equations and inequalities. A graphing calculator is required. (TI-83 plus preferred)

Text and Readings: Paul Sisson. College Algebra, 2nd ed. Hawkes Learning Systems/Quant Systems, Inc, 2008. (ISBN: Student: 978-1-932628-27-2; Student Bundle: 978-1-932628-29-6).

Course Goal: Students will acquire a fundamental understanding of the concepts of college algebra and will improve their critical thinking, communication, and problem-solving skills while developing an appreciation for the power of mathematics and its relevancy in their lives. This course will satisfy the algebra requirement for any associate degree program at SLCC or at a four-year institution.

Course Objectives: Upon completion of this course, the student will be able to analyze linear, quadratic, and polynomial functions that are represented numerically, graphically, or analytically; demonstrate an understanding of the connection between exponential and logarithmic functions; solve linear systems of equations and inequalities; analyze problems using critical thinking; use the language of mathematics properly to communicate mathematical ideas in both written and verbal form; read an article containing a significant amount of mathematics at the level of the course and write a critical paper.

Course Content: In this college algebra course students study various functions that are presented in numerical, graphical, or analytical form. Collaborative learning, exploration and discovery, classroom discussions, and appropriate use of technology are incorporated in the course.

Course Outline Math 1100 (college algebra)

Assessment: There will be three or four tests and a comprehensive final exam. Instructors should also use additional assessment such as graded homework, quizzes, projects, reports and other writing assignments, group activities, and portfolios. This additional assessment should include a component that fulfills the Reading Across the Curriculum and Writing Across the Curriculum objectives of the college.

Reading and Writing Across the Curriculum: The reading and writing components of these aforementioned assessments satisfies the Reading and Writing Across the Curriculum requirement as stipulated in SLCC's academic policy.

Grading and Absence Policy: The grading scale is as follows: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 0-59. If a student misses more than 10% of the classes with unexcused absences, he may be dropped from the course with a grade of "W" or may receive a grade of "F".

Students with Disabilities: Students with a disability requiring assistance or accommodation, such as for testing, note takers, readers, etc., should contact the instructor as soon as possible. Students may also contact the dean of Students with questions about such services.

Emergency Evacuation Procedure: A map of this floor is posted in the front of this building. The map marks the evacuation route and the Designated Rescue Area. This area is where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Students who may need assistance should identify themselves to the teaching faculty.